

Remembering the remarkable life of Peter Lougheed

Bev Betkowski

TA mournful trumpet call filled the air Sept. 18 as Peter Lougheed made his final stop at the University of Alberta.

U of A dignitaries, alumni, students, and former and current members of Lougheed's fraternity, Delta Upsilon, gathered at the entrance to Rutherford House as the hearse bearing Alberta's most beloved premier and one of the U of A's most distinguished alumni passed by.



Peter Lougheed

Lougheed, 84, died Sept. 13 and lay in state earlier this week at the Alberta Legislature before his body was returned to Calgary for burial.

Lougheed lived in Rutherford House during his time as a student. The stately home once served as the living quarters for Delta Upsilon.

A young trumpeter and member of the fraternity played the "Last Post" and the "Rouse" as a poignant farewell to Lougheed during the brief stop at Rutherford House.

"Peter Lougheed is a giant among the U of A's thousands of extraordinary alumni," said President Indira Samarasekera, paying tribute to the former Alberta premier through the university blog.

Along with the lasting impact of his luminous and visionary career in Alberta politics, Lougheed also left a legacy for his alma mater.

"His enduring affection for and commitment to the U of A has always been evident to me, whether

One last goodbye



U of A community bids farewell Sept. 18 to Peter Lougheed at Rutherford House, where he once lived as a student.

Royal Society of Canada honours U of A standouts

Michael Brown

In recognition of their outstanding scholarly and scientific achievements, four University of Alberta faculty members have been elected as fellows to the Royal Society of Canada, and a renewable-resource mainstay has been recognized with the society's communication award.

The new fellows are electrical and computer engineer Witold

Pedrycz, Arctic researcher John England, physicist Don Page and anthropologist Gregory Forth. John Acorn, faculty service officer and instructor in the Department of Renewable Resources, was awarded the McNeil Medal for his efforts to promote public awareness of science.

"I offer my warmest congratulations to our newest Royal Society fellows as well as John Acorn for his award," said U of A President

Indira Samarasekera. "Induction into the Royal Society is fitting recognition of their remarkable scholarship and the transformative impact that they have made within their disciplines.

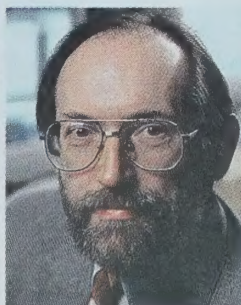
"They are all outstanding leaders in learning and discovery, and excellent representatives of the University of Alberta."

The Royal Society of Canada was founded in 1882 and is Canada's oldest and most

prestigious scholarly institute. With this year's inductees, the U of A now has 111 members.

"This award is a grateful reminder of the enormous opportunity that I have been given to cross the entire Canadian Arctic Archipelago—bay by bay, fiord by fiord—exploring so many profoundly beautiful places while

Continued on page 2



(L-R) Witold Pedrycz, Don Page, John England and Gregory Forth have been elected as fellows to the Royal Society of Canada, and John Acorn has received the society's McNeil Medal for promoting public awareness of science.

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Volume 50 Issue 2

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folio's mandate is to serve as a credible news source for the university community by communicating accurate and timely information about issues, programs, people and events and by serving as a forum for discussion and debate. folio is published 23 times per year.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in folio do not necessarily reflect university policy. folio contents may be printed with acknowledgement.

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ISSN 0015-5764 Copyright 2012



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Young teachers bring out students' passion, confidence

Bev Betkowski

In this age of Google, Wikipedia and instant answers, standing in front of a classroom to teach is not an easy feat.

"I have to be more interesting than Facebook; that's a challenge professors are starting to grapple with," noted Eric Adams, an associate professor in the Faculty of Law.

Adams and Eric Rivard, both budding educators, know this well, but their energy and dedication have won the hearts and minds of their students—at least enough, they hope, to keep the students from checking their emails during class.

Adams and Rivard, an assistant professor of chemistry in the Faculty of Science, are this year's winners of the Provost's Award for Early Achievement of Excellence in Undergraduate Teaching.

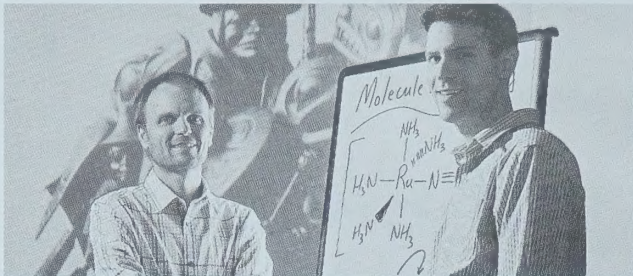
The pair are among outstanding faculty, staff and students being honoured at the annual Celebrate! Teaching, Learning and Research event being held Sept. 27.

Both men strive to link their classroom teachings to real-life concepts. For Adams, who teaches about the sometimes dry twists and turns of constitutional law, it means pushing his students to think for themselves, and not rush to the Internet for a quick answer.

"There are no Google answers in law, and for many students that is a struggle. Law school is not a matter of memorizing, it is about critical thinking," Adams became fascinated with constitutional law as a teenager as the Meech Lake Accord was being debated in the late 1980s. "My parents thought I was nuts; what teenager would be interested in this?" They predicted he'd become a lawyer, which he did after graduating from Dalhousie Law School in 2001. He practised law in Toronto before joining the U of A in 2007.

Twenty-five years after Meech Lake, Adams is still fascinated with how the law, politics

and Canadian culture intersect. "The world of academia gives me the time and space to pursue those questions." He shares that passion with his students in ways that pique their interest, using, for instance, photos of Jackson Pollock paintings to lead discussion about abstract legal theory. Or



(L-R) Eric Adams and Eric Rivard are among the award winners to be honoured at Celebrate!



Everyone is invited to attend this celebration, which begins at 4 p.m. Sept. 27 in the Myer Horowitz Theatre. There is no cost to attend, but please RSVP to the Academic Awards and Ceremonies Office at 780-492-2449.

using an image of a Haida sculpture as a launching point for a unit on Aboriginal rights.

"It's a way to humanize and visualize a concept to engage students," Adams said.

Tweaking the thought process is also top of mind for Rivard, who joined the U of A in 2008. One of his favourite ways to start off a class is by showing a "molecule of the day," paired with the tale of how it came to be. Who can resist a lesson about how the element phosphorus was isolated by boiling down urine?

"There's always a story behind discovery. And now they have a story to relate to the chemical principle involved."

By tingeing his classes with fun, Rivard draws students out, getting them to yell out answers as

he "slows the world down" by using a whiteboard instead of PowerPoint so they follow along as he writes out formulas. "Teaching is not a static, one-way process. I try to create an environment in which students are not afraid to be inquisitive."

Fascinated by his chosen field, Rivard earned

an undergraduate degree at the University of New Brunswick and a PhD at the University of Toronto.

He says he loves sharing the magic of chemistry, noting that his field of expertise—synthetic chemistry—is anything but dry. "Molecules are often built from the ground up, and there's an art to that."

Passion for their work and self-confidence are what both young professors hope to leave with

their students.

"The key to a happy career in law or anything else is an enthusiasm for the material, and that has to be discovered in the material you come across, so I encourage my students to find that set of concepts in law that excites them," Adams said.

For Rivard, the payoff is in seeing confidence levels grow.

"I see the change over four years of undergraduate school. By the end, they can see themselves as scientists at the PhD level. It's beautiful to see their confidence progress that way."

He adds: "Teaching is the most enjoyable hour of my workday."

Adams and Rivard both draw inspiration as teachers from their students and from fellow professors in the U of A community.

"As a new teacher I was immediately folded into a culture of good teaching, the belief that what goes on in the classroom is critical to the success of the faculty," Adams said.

And it's hard not to be energized by the students, Rivard said.

"Students at the U of A are going to be world leaders, they are that amazing. They can compete with any school in the world." ■

Gift leads to Alberta Land Institute

Folio Staff

Philanthropist David Bissett donated \$4.9 million to the University of Alberta to establish the Alberta Land Institute and support research into land use and land-use policies, in recognition of the need for more informed decisions in the face of continuous growth in Alberta.

"I came to Alberta 30 years ago and since then I've seen first-hand the changes in the province's landscape," said Bissett at the launch of the institute. "What we need is research and evidence that demonstrates to land users and policy makers how to balance all the competing interests for Alberta's land base. With its strong research capacity, the University of Alberta is well positioned to provide tangible solutions to address these challenges."

"We are so grateful for this gift," said President Indira Samarasekera. "It will allow the institute to grow into a recognized leader in the research and development of practical policy options for land use."

Faculty of ALES researcher Vic Adamowicz, an environmental economist and the institute's research director, says the institute—which has already begun establishing research priorities in the areas of agriculture, municipal development and governance—will investigate relevant land-use issues that are

"I've given time, money, energy and land to many land-use groups in the past; now it's time for the gift of information at the highest levels of decision-making for all stakeholders."

David Bissett

complex and often controversial. "In time, the institute will also work to fill in research gaps related to land use in the areas of energy, recreation, transportation and utilities, and forestry."

The institute will also support a research program on property-rights issues arising in Alberta based on current land-use regulations, and will host an International Land Use Symposium in Edmonton with land-use experts from around the world in late 2013.

"I've given time, money, energy and land to many land-use groups in the past; now it's time for the gift of information at the highest levels of decision-making for all stakeholders," said Bissett. "The Alberta Land Institute will provide the information in an unbiased way and prompt serious discussions about the kind of province we want to live in, and what tools, policies and strategies we need to get us there." ■

Former premier embodied the U of A

Continued from page 1

he was speaking at special university events or congratulating the latest recipients of the Peter Lougheed Scholarship," Samarasekera said. "His gifts to this university and to generations of U of A students will live on."

Lougheed's enduring connection to the university began when he enrolled as a student in the late 1940s, earning a bachelor of arts in 1951 and a law degree in 1952. During his busy career as a student, he took an active role in campus life and culture, and as an athlete.

Lougheed served as president of the Students' Union from 1951 to 1952, started sports reporting in the late 1940s for *The Gateway*, and

was sports editor from 1950 to 1951. Hand-in-hand with his job as a writer, he took to the field and played football for the Golden Bears in 1947 and 1948, a precursor to his later years as an Edmonton Eskimo.

Even as he moved on to a career in governance that would forge Alberta's role as an oil and gas giant, Lougheed's links to the U of A continued with the establishment of the Peter Lougheed Scholarships in 1986, which is awarded yearly to undergraduate students who are leaders in university life, community organizations or cultural activities.

Lougheed's accomplishments have been recognized over the years by the U of A. He was given an honorary doctor of laws degree in 1986, was named to the U of A Sports Wall of Fame in 1987 and received a Distinguished Alumni Award in 1994.

He continued to support the U of A in later years, attending signature events that mirrored the university's own milestones, including Alumni Weekends and the centenary of *The Gateway* in 2010.

"His dedication to public service, in politics and beyond, will always remain a powerful model for all current and future U of A students who strive, as he once did, to be a leader and a force for positive change within society." ■



(L-R) U of A board chair Douglas Goss presents a university flag to Peter Lougheed's sons Joe and Stephen in front of Rutherford House Sept. 18.

Martha Cook Piper Prize winner plumbs depths of human-animal relationship

Michael Brown

When it comes to making sense of the often contradictory relationship between humans and animals, Robert Losey is not one to just let sleeping dogs lie.



Robert Losey

In fact, the anthropologist has quickly made a name for himself magnifying the link between the present-day relationship we have with animals and similar relationships in the deep past.

"We love some of them, we hate some of them, we eat some of them, and the explanations for that are oftentimes really contradictory," said Losey, who joins astrophysicist Craig Heinke as a winner of the 2012 March Cook Piper Prize. "I

am interested in the history and the contradictions in the way we relate to animals."

The research prize was established to commemorate the contribution Cook Piper made to the research community while she was vice-president (research) and vice-president (research and external affairs) at the University of Alberta between 1993 and 1996. The prize recognizes faculty members who are at the early stage of their careers, enjoy a reputation for original research and show outstanding promise as researchers.

Losey will use this award to continue investigating current and past human-animal relationships among indigenous groups in Eastern Siberia, in particular to better understand the economic and spiritual importance of seals and sealing in the area.

His work goes far beyond sealing to encompass a broad geographical scope, including archeological materials from the Northwest Coast of North America, as well as research on dogs in both the Canadian Arctic and Scandinavia. One aspect of Losey's work has involved research into wolves, dogs and bears, and how some long-dead human settlements thought of these animals as persons with souls that required burial rites similar to those of people.

Whether he is exploring the mortuary treatment of animals, dog domestication or fisheries of ancient civilizations, Losey says his findings seem to capture the imagination of the general public.

"I think people already think about their relationships with animals. I just think about this relationship a little more in depth, with particular attention to why we do some of the things we do in our relationship with animals," he said.

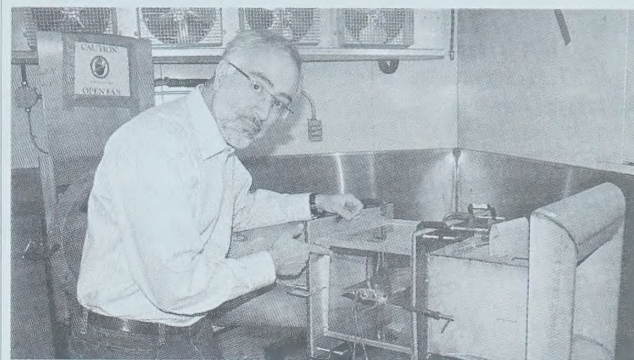
"I think this sort of research gets people to think more deeply about their connections to animals, whether household pets or farm animals, or even wildlife."

Much of Losey's work has practical applications to current issues in many areas, including conservation biology—he has been able to use past examples to illustrate ways in which people might avoid overusing resources. The impact of Losey's research is also evident in his work with graduate and undergraduate students, with whom he actively collaborates and publishes.

"I think it is beneficial to have someone here at the U of A doing this kind of research in a prominent way," said Losey.

"Hopefully it will attract a lot of good graduate and undergraduate students to the program and to my classes," he said. ■

Researcher's repellent expertise attracts approval



Alidad Amirfazli

Jenna Hoff

For a researcher who has spent a successful career studying repellents, Alidad Amirfazli is sure popular to be around.

Amirfazli, a Canada Research Chair and the Department of Mechanical Engineering's associate chair of research, has been awarded a 2012–2013 Annual Killam Professorship for, among other things, providing an attractive learning environment.

"I try to look for new ideas to include in my teaching that are experimental or avant-garde," said Amirfazli, who recently added a new dimension to the classroom by having his students incorporate Internet and social media elements into their technical reports.

"I think the most important contribution a professor can pass along to his students is to create positive learning opportunities that expose students to as many challenges, topics and situations as possible, whether or not they are directly related to the subject of their study or research."

Besides teaching, the Killam Professorship recognizes distinguished scholarship through research, creative activities, publications and other scholarly contributions, as well as community service related to university responsibilities.

Amirfazli's research focuses on superhydrophobic surfaces, which are highly repellent to water, including the adhesion of drops, and the impact of drops on various surfaces.

Because of this, Amirfazli collaborates with professors from other

Killam

faculties to provide his students with an interdisciplinary perspective on mechanical engineering topics. For example, when teaching about energy technologies, he will have another professor come and help the students explore related legal and economic issues.

Amirfazli also places a high value on community service, and has served in numerous capacities with the Canadian Society of Mechanical Engineering and the Association of Professional Engineers and Geoscientists of Alberta. He has mentored students through Engineers Without Borders and the Energy Club, and has played an integral role in arranging international student exchanges between the U of A and the Technical University of Munich, the Sharif University of Technology, and the Technical University of Freiberg.

"The environment at the U of A encourages faculty members to dedicate themselves to community service," said Amirfazli, who is also the editor of the journal *Advances in Colloid and Interface Science*, and who reviews funding applications and papers for various provincial, federal and European funding agencies and many scientific journals.

According to Amirfazli, the inspiration and motivation for his strong commitment to excellence has grown from hard work and his great love of his profession. "I think if a person likes what they do, and dedicates himself or herself to their work, the result will automatically be a creative and excellent one." ■

RSC honours U of A leaders in learning and discovery

Continued from page 1

sharing this experience with close friends and colleagues," said England.

A professor in the Department of Earth and Atmospheric Sciences, England is internationally acclaimed for his 45-year survey throughout Arctic Canada reconstructing the behaviour of ancient ice sheets, sea ice and sea level that illuminate our understanding of modern Arctic environments. He is one of Canada's prestigious NSERC Northern Research Chairs, spearheaded the establishment of Canada's northernmost national park, is a leading advocate for a Canadian Polar Policy and is actively engaged in mentoring Inuit and Inuvialuit students.

"I feel in many ways that this award also includes my academic community—faculty, post-docs, and grad students—who continue to honour the U of A with so much obvious excellence in northern research, putting the university on the map by elaborating on such appropriate, relevant and exciting knowledge of our own country."

He added, "The U of A has provided the venue for many resources that have allowed my work to continue—indeed, to have precious continuity—through so many decades."

Page, a professor in the Department of Physics, counts among his accomplishments no less than four concepts bearing his name, in a range of physics research areas—the Page approximation in black-hole physics, the Page metric in quantum gravity, the Page charge in supergravity and the Hawking-Page transition in black-hole thermodynamics—as well as the refutation of three major claims by Stephen Hawking.

Page gives much of the credit for his successes to RSC fellow, mentor and longtime friend, Werner Israel, who brought Page to the U of A in 1990.

"He built up at the U of A one of the largest and strongest groups in the world in cosmology and black-hole physics," said Page. "I have greatly benefited from being part of that group."

Pedrycz, a professor in the Department of Electrical and Computer Engineering, was elected on the strength of his pioneering contributions to computational intelligence and its applications to system analysis. Pedrycz developed fundamental concepts and algorithmic foundations in the disciplines of neurocomputing, fuzzy sets and evolutionary optimization, forming the essence of computational intelligence.

Forth, a professor in the Department of Anthropology, is an internationally recognized social anthropologist and ethnobiologist working in Indonesian studies. His reputation is founded on his extensive field research and the exemplary quality of his numerous books and published papers. Forth's research on indigenous hominoid images, first published in 1998, anticipated paleo-anthropological research leading to the discovery of *Homo floresiensis* in 2003.

"The honour indicates that the U of A is able to attract and retain very capable scholars and scientists, which is evidence of the standing of the university, particularly nationally," said Forth. "It further attests to the strength of anthropology at the U of A. For awhile now, anthropology has been recognized, certainly within the Faculty of Arts, as a strong department. This award lends more proof to that."

As an internationally acclaimed author, speaker, photographer and broadcaster, Acorn—also known as "The Nature Nut"—makes science fun and accessible, and inspires adults and children to venture outside and engage with the natural world.

"I'm really quite humbled by the award, and it is great to know that the RSC values my style of public education and promotion of science," said Acorn. He added that it's fun being able to function as an academic on the one hand, and as a popularizer of science on the other. "It will be a pleasure to keep on promoting science to a general audience, and I'm confident that the U of A is a great place to do so." ■

"Induction into the Royal Society is fitting recognition of their remarkable scholarship and the transformative impact that they have made within their disciplines."

Indira Samarasekera

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A new career frontier for science students

Jamie Hanlon

Science students at the University of Alberta are about to boldly go where no one has gone before—their own CAPS office.

"The question had been raised as to how we could best help science students come up with the tools they need to continue into the workforce," said Shannon Goodwin, student life and industrial internship program advisor for the Faculty of Science. "Given the visibility

career choices—just in time for the centre's grand opening Sept. 25, followed by Careers Day Sept. 26.

Another bonus for students using the centre is that, along with being in a new and distinctive building, it puts top-of-the-line resources at their disposal.

"The really nice thing about this centre is, because it's new, it has all new technology and all new resource tools going in to make it work and make it that much more accessible," said Sarah Coffin, communications co-ordinator for CAPS.

The CCIS branch of CAPS joins the other centres located in HUB and the Students' Union Building to assist students with job- and career-related queries. Just as the HUB centre has an arts-centric theme, the CCIS office is focused mainly on science students. But regardless of faculty or school, all students are welcome to seek assistance or take part in workshops and seminars at the new centre.

"Most of the services are very similar; it's the location that makes it different. Because this is in a science building and we're partnering with the Faculty of Science, there will be a lot more science-specific resources available," said Coffin. "In terms of the services and the expertise and the questions that students can ask, they'll get the same level of friendly and quality service throughout all three centres."



Shannon Goodwin (left), student life and industrial internship program advisor for the Faculty of Science, and Sarah Coffin, communications co-ordinator for CAPS, welcome students to the new career office in the Centennial Centre for Interdisciplinary Science.

The new facility, located on the main floor of the Centennial Centre for Interdisciplinary Science next to the Science Student Services Office, is a joint venture between CAPS: Your U of A Career Centre and the Faculty of Science. It was created to provide science students with an accessible space they can use to seek employment opportunities, find answers to questions about career options or get resources to help them plan their future. The centre brings two strong resources together to give students a single point of access in their own space.

of where this office is, we felt it was a great opportunity to work with CAPS to have these services right where our students eat, live and breathe."

The office opened as students were returning to campus, welcoming new students with information and giveaways, and building with programming and prizes to attract students to the space and inform them about the services it offers. The end of September will culminate with activities geared toward helping students explore their

Writing centre helps students polish their prose

Jamie Hanlon

Tucked away on the lower floor of Assiniboia Hall, the University of Alberta's Centre for Writers sits, waiting for students seeking to improve their skills. From essays to dissertations, lab reports to poetry, writing tutors will equip students with the knowledge and skills to polish prose and guide grammatical skill.

The centre averages about 5,000 appointments a year, of which about 30 per cent are with first-year students. But the centre's services aren't just for first-years; Lucie Moussu, the centre's director, makes it clear that international students, grad students, faculty and staff are welcome to bring in their written work for review. Just don't ask for an editor.

"We're not going to edit students' papers," she said. "We really try to improve the students' writing skills in general, not just that one paper that they bring to us."

Moussu says her student tutors receive intensive training before they see their first page. As students themselves, they can empathize with the pressures of classes and writing. Whether students are good writers seeking a few pointers to improve their skills, or struggling scholars needing anything from a point in the right direction to ongoing assistance in getting a handle on grammar and style, the tutor's sole objective is to help them become better writers. Moussu encourages students to talk to a tutor no matter where they are in the writing process.

"This is not a remedial place, it's for everybody."

Lucie Moussu

body," says Moussu. She points out that no matter how proficient a writer someone is, having a second pair of eyes on the assignment always helps. Even students who haven't begun the writing process and are unsure of how to proceed can take advantage of the free help the centre staff or campus librarians can provide. Moussu says she is mindful of the challenges that

University 101



Lucie Moussu and the Centre for Writers average about 5,000 appointments per year.

the skill sets to work effectively with them. Methods used to teach English as a second or additional language tend to neglect content and style for the sake of grammatical accuracy, meaning students focus first and foremost on grammar and spelling before they work on developing content in their writing.

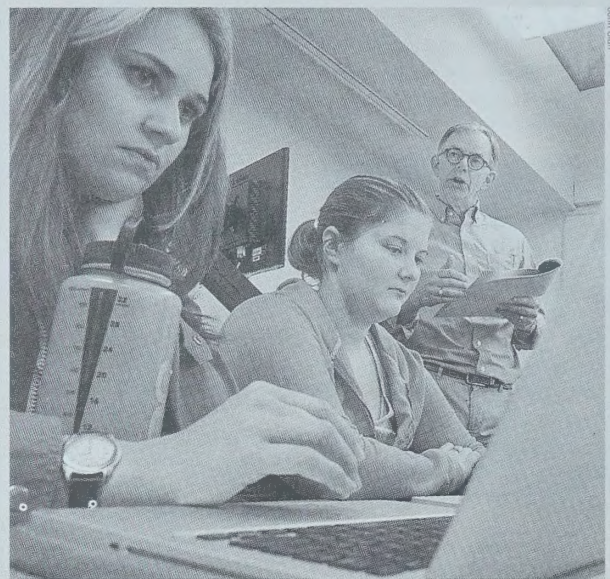
"This year and last, we've been working with the international student office, providing a two-week workshop program for new, incoming international students," said Moussu.

As much as the centre is about the pronouns, predicates and prepositions, it's also about the pizza. Moussu says the centre holds workshops throughout the semester on various topics guided by student interest. Among the workshops to be covered this year are ESL writing and chocolate, cupcakes and writing for in-class essays and short-answer exam questions, and brownies topped with quoting, paraphrasing and summarizing.

"Students love it," she said. "They enjoy it because it's very informal; they don't need to register; they can just show up and there's useful information—and

Group writing tutorials put to the test

TLEF



Roger Graves is using his TLEF grant to assess the impact of the Writing Across the Curriculum program.

Michael Brown

It takes a village to raise a child, and, apparently, takes a village to raise a writer as well.

That notion is being put to the test thanks to a collaborative research project to assess the impact of an innovative instructional strategy developed by the Writing Across the Curriculum program—group writing tutorials.

"We've developed a writing support technique that, instead of one-to-one tutoring sessions, uses small groups of students—up to 15—working with one tutor," said Roger Graves, professor in the Department of English and Film Studies and lead on the project that received a \$62,788 Teaching and Learning Enhancement Fund grant. "Early evidence suggests that this method significantly improves the quality of student writing as measured by their professors' grades."

Writing Across the Curriculum is a university writing initiative designed to evaluate any curriculum's writing components, help instructors and departments incorporate better writing assignments and help improve the writing of students in a group setting.

Graves says the group setting allows students to see what their peers have written, which allows for the proliferation of ideas and the ability to address elements that may have been misunderstood in the assignment—and that can be changed before being handed in.

"It allows students to see that others are struggling with some aspects of the assignment, too, and that encourages students to keep going because they realize they aren't the only ones who couldn't figure something out," he said. "I think the program works on several levels and does things that one-on-one won't do—in fact, can't do."

Graves, who has introduced Writing Across the Curriculum in departments and faculties across the spectrum, says the project will help determine whether this improvement in grades and quality is widespread. He also hopes it will allow researchers to create an instrument whereby students could determine whether they would benefit.

"This type of predictive modelling represents an innovative shift in writing studies," said Graves, who notes he is hoping to enrol 500 students in the project this year.

"Undergraduate students will not only benefit from these sessions but will also be able to determine this ahead of time."

With the help of Geraldine Lasiuk, professor in the Faculty of Nursing, and Daphne Read, undergraduate program co-ordinator in English and film studies, Graves is rolling out this program whose success not only helps students but has an economic benefit.

"We can provide writing support to students in courses in their discipline for a fraction of the cost of one-to-one tutoring, and within the context of the subjects they are studying," said Graves, noting the Centre for Writers' budget limit for the number of one-on-one appointments it can deliver is about 5,000 per year.

"The Writing Across the Curriculum group tutoring initiative can deliver writing support to another 1,500 to 2,000 students this year. We're trying to release our 'inner radical,' to paraphrase President Indira Samarasekera."

One-on-one resources for writers include the Centre for Writers in Assiniboia Hall, Writing Resources in Student Services in the Students' Union Building, the Writing Centre in Augustana Campus and the Centre d'écriture bilingue (Bilingual Writing Centre) in Campus Saint-Jean. ■

Helmholtz award for distinguished researcher

Michael Brown and Christina Ostashevsky

Lorne Babiuk, University of Alberta vice-president (research), will be honoured as one of six outstanding researchers to win the first-ever Helmholtz International Fellow Award. The recipients were announced on Sept. 10 at the second Helmholtz-Alberta Initiative (HAI) Science Forum in Potsdam, Germany.

"This award means that the University of Alberta has been once again acknowledged as one of the leaders of international collaboration," said Babiuk of the fellowship given to researchers from outside Germany who have distinguished themselves through their work in Helmholtz-relevant areas. The honour includes a \$25,000 prize to allow the winner to conduct research

in Germany. "The award symbolizes the relationships that have been built and lays the foundations for further activities between the Helmholtz Association and the university."

HAI is an international research partnership struck in 2009 between the U of A and the Helmholtz Association of Research Centres, Germany's largest scientific organization, to develop solutions for cleaner energy production. Babiuk said a major achievement of the partnership since the initial \$25-million investment by the Alberta government is an expansion beyond the initiative's original energy and environmental framework, which brings U of A and German scientists together to work on fundamental questions such as the use of deep geothermal energy, upgrading of fossil energy carriers, carbon capture and storage, sustainable tailings management, and remediation and reclamation of mined areas.

"This award means that the University of Alberta has been once again acknowledged as one of the leaders of international collaboration."

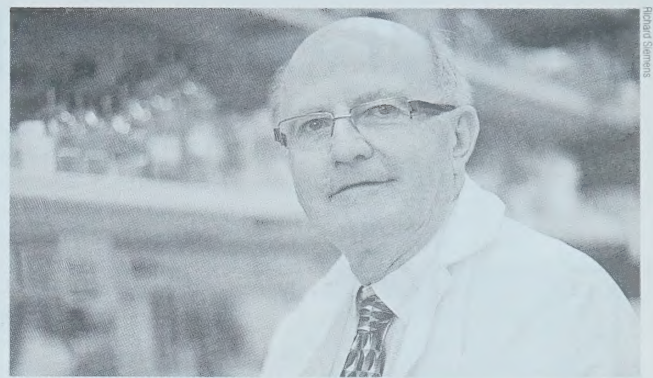
Lorne Babiuk

"Currently we are in the process of broadening this research co-operation with Helmholtz in the areas of health, resource technologies and remote sensing," said Babiuk, who added that another future focus of HAI will be joint research on hepatitis with the Helmholtz Centre for Infection Research in Braunschweig, which was also the institution that nominated him for the fellowship award.

Babiuk was on hand in Potsdam to co-host the two-day HAI Science Forum that saw upwards of 100 U of A graduate students, post-doctoral fellows, researchers and German industry leaders descend on the GFZ German Research Centre for Geosciences for a conference that featured research lectures,

poster presentations and tours of many facilities, including a pilot carbon dioxide storage site and an artificial water catchment.

Stefan Scherer, managing director of HAI at the U of A, said the forum provides a valuable experience for the students to present their research to their German colleagues. "Many will be continuing their interaction on a scientific and personal level following the forum in Potsdam," he said. The next HAI Science Forum will be held in September 2013 in Edmonton. ■



Lorne Babiuk, renowned virologist and U of A vice-president (research), will be honoured with the first-ever Helmholtz International Fellow Award.

The shy-hider elk shall inherit the Earth

Brian Murphy

University of Alberta-led research shows that an elk's personality type is a big factor in whether or not it survives the hunting season.

Data collected from GPS collars on more than 100 male and female elk in southwestern Alberta showed U of A researchers the study population could be divided into two categories: "bold runners" and "shy hidiers."

Bold-runner elk, both males and females, moved quickly through the study area and preferred to graze in open fields for the most abundant and nutritious grass.

Lead U of A researcher Simone Ciuti says shy hidiers behaved very differently, choosing to graze on the sparse vegetation of wooded areas and moving slowly and cautiously.

The research also showed that far more bold runners were taken by elk hunters than shy hidiers.

Ciuti says this is the first time an animal's personality type has been linked to survival in a hunting season.

"Up until now, it was believed the physical traits of an elk dictated what animals were taken by hunters," said Ciuti. "Big

male elk with large antler racks are traditionally the prime target for hunters."

Ciuti says GPS data collected over one hunting season shows hunters are going for the most visible or available elk; thus, more bold-runner elk showed up in the scopes of high-powered rifles.

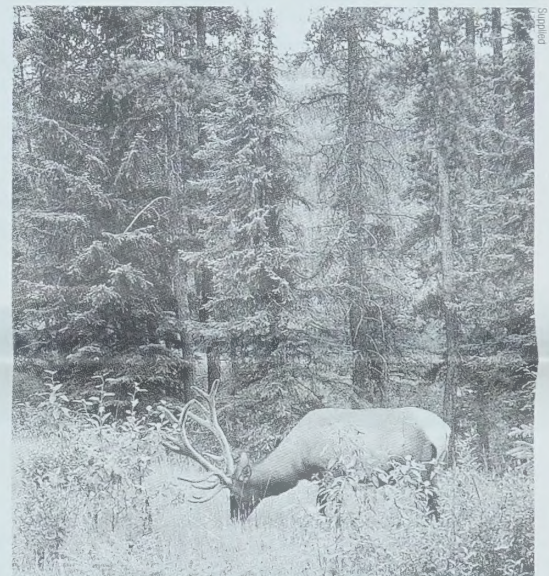
Ciuti says GPS collars were put on 45 two-and-a-half-year-old male elk. This age was chosen because this is the first time these young males were eligible hunting targets.

All told, 33 per cent of the males were taken by hunters. All were identified by GPS data as bold runners.

The researchers found that the same held true for a wider age group of 77 female elk in the study. All females between two and nine years of age and identified as bold runners were taken by hunters. All the female elk in that age group identified as shy hidiers survived the hunt.

Ciuti says the data also showed something interesting in the survival rate of older female elk.

"All the females older than nine years survived the hunting season. That shows us that in female elk, whether they're bold runners or shy hidiers, if they lived to nine years of age, they adapted to hunters and became less visible targets." ■



An elk grazes in a wooded area. U of A researchers found that the personality types of elk were linked with their survival in a hunting season.

Home windows take a deadly toll on Canada's bird population

Brian Murphy

The thud of a bird hitting a window is something many Canadian homeowners experience.

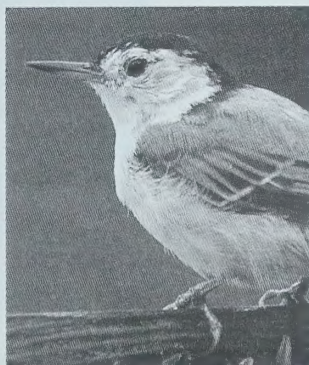
University of Alberta conservation biology students tapped into that shared experience with homeowners in the Edmonton area, and their data netted startling results.

Data collected by the third-year students led to a staggering estimate that 22 million birds a year are killed in collisions with house windows across Canada.

U of A biology professor Erin Bayne supervised the student research. "The main purpose was a teaching exercise, to get the students out there interacting with the public and doing real research," said Bayne.

"Little research has been done to document the significance of these collisions for Canada's bird populations, and the results show window strikes are an important factor."

The research was done in Edmonton and the surrounding area using evidence gathered from more than 1,700 homeowners.



Conservation biology students uncovered startling results in a field research project, estimating that 22 million birds die each year in Canada by hitting house windows.

Homeowners were recruited as citizen scientists for the study, and required to complete an online survey in which they were asked to recall fatal bird hits over the previous year.

Bayne and his team processed the Edmonton data and concluded that with about 300,000 homes in the study area, the death toll for birds from window strikes might reach 180,000 per year.

The researchers applied that figure to national housing statistics and arrived at the 22-million figure for bird-versus-window fatalities.

Bayne says that many people recalled bird strikes at their homes, but there was little awareness that residential window deaths might affect bird populations.

The main factors influencing the frequency of collisions were the age of the trees in the yard and whether or not people fed birds.

"In many cases, people who go out of their way to help birds by putting up feeders and bird-friendly plants are unwittingly contributing to the problem," said Bayne.

One tip the researchers have for safer placement of a bird feeder concerns its distance from the house. Bayne says the safety factor has to do with a bird's flying speed. As with car crashes, speed kills.

"A feeder three to four metres from a window is bad because the bird has space to pick up lots of speed as it leaves the feeder," said Bayne. Fast-flying birds like sparrows and chickadees, and aggressive birds like robins, are apt to collide

with windows placed too close to free food. Placing the feeder either closer or much further are options.

Researchers believe many window collisions are caused by in-flight mistakes.

"It's called a panic flight; a bird startled by a cat or competing with other birds at the feeder may suddenly take flight and doesn't recognize the window as a hazard," said Bayne. ■

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Football warrior inducted to Sports Wall of Fame

Bryan Alary

Former University of Alberta Golden Bear Blake Dermott is used to fans cheering his name after an all-star athletics career that saw him ascend to CIS titles in football and wrestling, and two Grey Cups in the Canadian Football League.

When Dermott ('84 B.Ed.) accepted his latest honour—induction to the U of A's Sports Wall of Fame during this week's Alumni Recognition Awards—he had

another large crowd on hand, only this time he was doing the cheering. He invited 70 former coaches, Golden Bears and Eskimos teammates and friends so he could personally thank them for having a hand in his career in football and athletics.

"I never would have had the success that I did or play as long as I did without their influence," said Dermott, who played four seasons with the Golden Bears before embarking on a 14-year career as an offensive tackle with the Edmonton Eskimos.

"They are so many good teachers, coaches who helped shape my life. When you reach high-school age, you may see them more than your parents—they become a very pivotal part in your development of who you become."

Dermott knows from experience, on both sides of the field. A few years after retiring from the Eskimos in 1996, he became a role model for kids as a coach of the Salisbury Composite High School Sabres in Sherwood Park. He started coaching when his son Brock was 10 years old and followed him

throughout high school; now that Brock is a teacher and coach at the school, the pair patrols the sidelines together.

Dermott, who works full-time as an account executive for the Edmonton-based graphic design and printing firm Cowan Graphics Inc., credits his time and relationships forged at the U of A for success on and off the field, and for passing the torch to the next generation.

"The U of A gave me the educational training that has allowed me to develop a career after football," he said. "I learned an awful lot about the skills you need to be successful—teamwork, critical thinking and the ability to adapt to different situations."

Being added to an illustrious group of athletes on the U of A's Sports Wall of Fame is an honour that brings back a flood of fond memories, including being prodded by former Bears coach and fellow Sports Wall of Fame inductee John Barry to try out for the wrestling team. Although he had some doubts initially, Dermott proved a force on the mat, winning a gold medal at the 1982 CIS Wrestling Championships and even competing in Japan with the team.

On the football field, Dermott was a two-time Canada West all-star and his Golden Bears team won it all with the 1980 Vanier Cup. It's a time—and those are relationships—that he says he'll always cherish.

"When you win a championship, when you go to battle with someone every day, you have a bond that's closer to being a brother than a teammate." ■

2012 Inductees to the U of A Sports Wall of Fame

Keltie Duggan, '94 BA, was a member of Canada's national swim team from 1987 until 1993, where she won gold at the 1990 Commonwealth Games and was a member of the Canadian Olympic Swim team in 1988. In 1989-90, she was named Swimming Canada's athlete of the year. She was the U of A's female Athlete of the Year in 1989-90 and earned five consecutive Academic All-Canadian honours. In 1994, Duggan began volunteering at the Alberta Children's Hospital to further her goal of becoming a doctor. She graduated from the University of Calgary medical school in 2000.

R. Gerald Glassford, '64 MA, came to the U of A in 1963 as a graduate student, having taught and coached at high schools in B.C. A year after he received his master's degree, he was appointed as a faculty member in physical education and began helping coach the Golden Bears basketball team. As chair of the Department of Physical Education and dean of the faculty from

1981 to 1990, he served as a mentor to countless students, academic colleagues, university athletes and coaches. Glassford served on 57 university, provincial, national and international committees and chaired the conferences associated with both Universiade 1983 and the 1978 Commonwealth Games.

Janine Helland, '93 BPE, enjoyed a career with the Pandas soccer team where she was a four-time All-Canadian, the championship MVP when her team won the 1989 national championship, and the winner of the Bakewell Trophy in 1992 as the U of A's top female athlete. Beginning with the 1990-91 season, she played in 47 games over 10 seasons for the Canadian women's soccer team, serving as captain. As a coach, Helland helped lead the Grant MacEwan Griffins to the collegiate national championships in 1994, where they placed fourth. Helland is currently co-ordinator of community programs for KidSport Edmonton.



Former Golden Bear and Edmonton Eskimos all-star Blake Dermott was one of four recipients honoured during Alumni Recognition Awards.

Announcing the 2012 Alumni Recognition Award Recipients

Distinguished Alumni Award

Theodore Aaron, '39 B.Sc., '42 MD
Scott Gilmore, '95 B.Com.
Norma Bertha Kreutz, '44 B.Ed., '55 BA, '68 Med
Lubomyr T. Romankiw, '55 B.Sc.(Eng)

Alumni Honour Award

Sten Berg, '54 B.Sc.(Ag)
Andrew Dawrant, '93 BA
Merna Forster, '76 BA
Dianne Greenough, '78 B.Ed.
Megan M. Hodge, '73, B.Sc.(Speech)
W.Laird Hunter, '74 BA, '75 LLB
Yasmin Jivraj, '80 B.Sc.
Prem Kalita, '64 B.Ed.
Krishan Joshee, '68 B.Ed.
Patricia C. Lane, '79 BA, '82 LLB
Jean McBean, '68 BA, '72 LLB
Michael R.A. Mowat, '79 PhD
Donald A. Sinclair, '73 M.Ed.
Mogens Smed, '72 BA

The Alumni Centenary Award for Volunteer Service

Michael Bullock, '60 MD
Wendy C. Jerome, '58 BPE

Alumni Award of Excellence

J. Waymatea Ellis, '97 B.Ed.
Benjamin Sparrow, '99 B.Sc.(Eng)
Jane Walter, '93 B.Ed.

Alumni Horizon Award

Graham Buksa, '04 B.Sc.(Eng)
Punita Chohan, '08 Dip(Ed)
Abdullah Saleh, '10 MD
Shannon D. Scott, '06 PhD
Warren Serink, '00 BA
Dorothy Thunder, '02 BA(Native Studies)

The Honourable Dr. Lois E. Hole Student Spirit Award

Kirsten Poon
Stephen Lee

Alumni volunteer co-ordinator appreciates gift of time

staff spotlight

Michael Brown

The University of Alberta Alumni Association's strength is derived less from its sheer numbers and more from an unbridled willingness to give back.

Harnessing that passion and giving it direction falls on the shoulders of Kyla Amrhein.

"I get to see them out in the field doing volunteer work and I get to have those conversations that connect them back to campus, which connects me back to when I did my degree here," said Amrhein, the association's first-ever volunteer co-ordinator. "I am very fortunate in that the relationships I am able to build with alumni is pretty special."

"So often we think of donating money, but I think time is a limited resource, and so many U of A alumni want to give back in any way they can."

Kyla Amrhein

Amrhein manages nearly 300 alumni association volunteers under the Alumni Ambassador Program, which was launched in October 2010 but didn't have a dedicated leader until Amrhein took the job this past summer.

"So often we think of donating money, but I think time is a limited resource, and so many U of A alumni want to give back in any way they can," she said. "I am here to try to facilitate that."

The program sits atop four pillars the association set out as ways of better engaging its volunteers—mentorship of students, student recruitment, community-service programs and volunteering for alumni programs.

"I work to identify, develop and manage those volunteer relationships, and when we have volunteers coming forward, I try to find great ways to keep them engaged," said Amrhein. "So many alumni feel as though they have so much to give back, and volunteering their time is just one more facet for them to do that."

Most of Amrhein's focus at this point in the year has been on Alumni Weekend Sept. 20–23.



Kyla Amrhein, the Alumni Association's first-ever volunteer co-ordinator, enjoys helping alumni stay engaged with the U of A.

"That's eight or nine different events that I have 100 volunteers at," she said. "But Alumni Weekend is just one more way that we can connect alumni back to campus."

Other volunteering outlets that Amrhein co-ordinates include a job-shadow mentorship program put on by CAPS: Your U of A Career Centre; the Office of the Registrar's Campus Ambassadors Program, which provides tours of the campus; and recruitment events throughout the province, across Canada and around the world.

"Our programs where volunteers connect with students tend to be very successful," she said. "Anytime we can make that connection, it's a hit." ■

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The importance of alumni reunions

the open door

O'Neil Outar, vice-president (advancement)

As more than 3,000 alumni return to campus this weekend, we encourage you to join them. Take the time to go to Quad and sample a cinnamon bun, meet former students and be a part of the Alumni Weekend 2012 celebrations.

Nearly 9,000 university staff members are also graduates, so all told we are hosting more than 10,000 graduates Sept. 20 to 23.

Staff who are also alumni, however, have a vital role to play during this time of reconnection.

It's important that we nurture the university's connection to all

students, past and present. Strengthening the student experience means strengthening their emotional bond to our institution. With strong bonds comes strong support.

Alumni reunions are an opportunity for professors, students and administrators to reconnect and re-engage in a meaningful way with those who have already invested their time and money to be educated at our great university. We open our doors to them and answer their questions. In turn, they share with us how profoundly their lives

were shaped by their time at the University of Alberta.

As much as it's a time for reflection, this is also a time for us to share how the campus landscape has changed, where we will focus our new priorities and research, and how teaching has progressed to include more interactive, community-based and even simulation-based learning experiences.

But ultimately, it's a chance to reaffirm alongside our alumni what it is that makes the U of A one of the world's great universities for the public good. ■

Award winner fights the good fight for Cree culture

Bev Betkowski

For Dorothy Thunder, the Cree language and culture can't be separated, and if one is lost, the other will surely follow.

It was this thought that inspired a dedication to preserving and teaching Cree, from her days as a student in the University of Alberta's Faculty of Native Studies, to her current work as a sessional instructor and master's student on campus, to her latest accomplishment as a U of A alumni award winner.

As a recipient of the 2012 Alumni Horizon Award, Thunder is being honoured for early career accomplishments in keeping her native tongue alive. Through her work, Thunder hopes to help Aboriginal communities gain a strong sense of identity—one that is defined not by policy, but by culture, and supported by language.

"It would be wonderful if people understood their own language; if they know who they are, they know where they came from."

Thunder, a mother to a blended family of nine children, is teaching her family to understand and speak Cree. She is particularly keen to leave a legacy for the generations to come.

"It's my first language and I see a lot of the younger people don't speak it anymore, and that is painful to me. Our values are in the Cree language. If you don't have an understanding of the language, you are missing half the teachings; you are not getting the full meaning," she said. "The Cree language and culture are like a puzzle you are putting together to get the complete picture, the deeper meaning of it."

Thunder grew up in Saskatchewan speaking Cree, but before beginning her studies at the U of A, did



Dorothy Thunder's dedication to Cree culture has taken her from student to instructor to alumni award winner.

not know how to write it. While in a transition studies program at Concordia University College, she became intrigued by a guest speaker, the late Donna Paskemin, who was teaching Cree at the U of A.

"Donna talked about writing it, learning the linguistics of it, and I thought maybe that was something I wanted to do."

Thunder took up the challenge, enrolling in what was then the School of Native Studies and graduating with a degree in 2002. She's been part of the U of A ever since, teaching and building layer

upon layer of knowledge about the Cree language, and was instrumental in the development of the university's Canadian Indigenous Languages and Literacy Development Institute.

"I had to switch to the Cree sounding and writing system, which is very different from English ... but I told myself if I could learn English as a second language, I could learn Cree."

Today she teaches introductory Cree and has developed a set of textbooks, helping students navigate and appreciate the language's cultural nuances. She also played a pivotal role in helping translate an 1883 Cree prayer book into modern Cree and English, resulting in the publication of a rich scholarly work, *The Beginning of Print Culture in Athabasca Country*.

For her master's degree in linguistics, Thunder is slowly sifting through the Cree language, sorting out the sometimes multiple meanings of each word, with plans to ultimately compile a corpus—a large, structured set of texts that define Cree. Reaching beyond campus learning, Thunder is also teaching online high-school Cree courses, as "another way of teaching and reaching the community." ■

Breaking new ground for fresh water

Brian Murphy

Ben Sparrow, who accepted a University of Alberta alumni award Sept. 20, gives a lot of credit to his mechanical engineering professors.

"The U of A's mechanical engineering program was very good at teaching students to avoid one-sided thinking and really stressed consideration of alternative solutions to engineering problems," said Sparrow.

Since graduating from the U of A in 1999, Sparrow has done a lot of thinking outside the box and that led him to co-found Saltworks Technologies, an engineering firm specializing in water treatment.

Sparrow says his Vancouver-based company's main focus is water treatment solutions for industries like oil and gas production, but he has high hopes for a piece of Saltworks's equipment that NASA could send into space.

"The International Space Station uses a conventional method to recycle water—basically it's boiled and condensed—but they've had problems with calcium fouling up the equipment," said Sparrow. NASA organized



Entrepreneur and inventor Ben Sparrow received the Alumni Award of Excellence for his company's innovative water treatment technology.

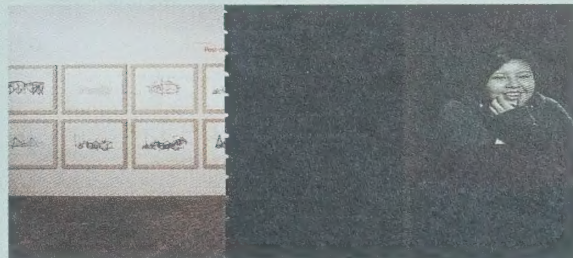
a global competition looking for better technology and Saltworks won a tryout. "NASA engineers have been testing our equipment for a few months now," said Sparrow. "So far the results have been extremely positive."

The U of A's Alumni Award of Excellence is the second honour for Sparrow in the last month. In August he was awarded the Queen Elizabeth II Diamond Jubilee Medal in recognition of the importance of Saltworks's technologies and significant innovations to Canada and its environment.

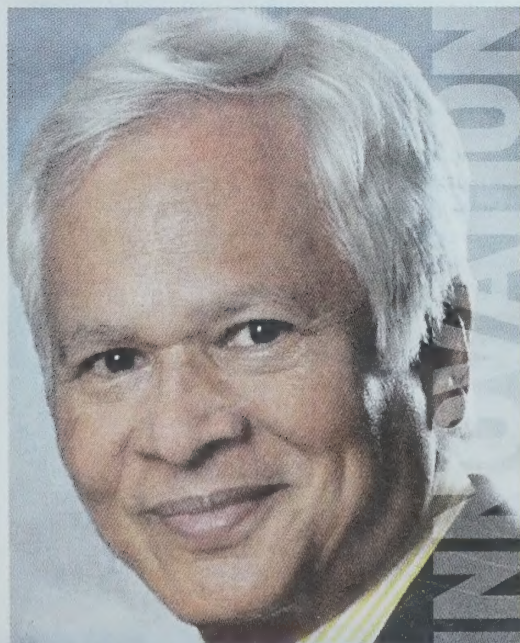
As CEO of Saltworks, Sparrow says his U of A education comes to mind when he's comparing it with the credentials of the engineers who apply for work with his company.

"U of A's engineering is definitely world-class when it comes to preparing students for industry." ■

Are You a Winner?



Congratulations to Bob Barton, who won a now-vintage Butterdome butterdish as part of Folio's Sept. 7 "Are You a Winner?" contest. Barton identified the photo as the U of A mascots at a crosswalk near the northeast corner of Stadium Carpark. To win your own butterdish, identify where the object pictured is located and email your answer to folio@ualberta.ca by noon on Monday, Oct. 1, and you will be entered into the draw.



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UNIVERSITY OF ALBERTA
OFFICE OF ADVANCEMENT

Researcher finds room for big picture at U of A

Michael Brown

Marvin Washington is naturally a big-picture thinker. More than that, his attraction to the changing landscape of the master plan and those who see the world at its large-scale borders on magnetic.

It stands to reason, then, that he would one day find his way to the University of Alberta.

Since his arrival seven years ago this January, Washington, an associate professor in the Department of Strategic Management and Organization in the Alberta School of Business and adjunct professor in the Faculty of Physical Education and Recreation, has dazzled with his insights into change management in a wide range of non-traditional subjects such as the online gambling industry, college sport, football coaches, chiropractic medicine, Italian lawyers and pastors of mega-churches.

Among a myriad of research projects and teaching commitments—which includes teaching all three sections of the MBA capstone course in business strategy, as well as classes in sport management and sport marketing—Washington has continued on a decade-long relationship helping government leaders of Botswana develop and execute strategic plans to implement Botswana's Vision 2020.

Now, that side project has turned Washington into a 2012-13 McCalla Professor, and brought into focus the reason the U of A is his perfect fit.

"You can see where other universities might ask, 'Why would helping Botswana help us? It's not in Alberta, it's not Research in Motion, it's not Shaw,' but the University of Alberta has this broad mandate to make a contribution, and not a very prescribed mandate where they're telling you where and how to make a contribution," said Washington. "I really



Marvin Washington has been working with the government of Botswana for 12 years.

McCalla

"I really think administration supports me in Botswana, and there isn't just a tolerance for it, but an appetite for it, even a celebration of it."

Marvin Washington

think administration supports me in Botswana, and there isn't just a

tolerance for it, but an appetite for it, even a celebration of it."

Washington says he plans on using the McCalla Professorship to develop additional research manuscripts as well as teaching cases that could be used in the graduate-level strategic management class that he teaches. This professorship will also fund two graduate students that will help him with this endeavour.

"I get the idea of academic knowledge and I get the idea of extending knowledge, but sometimes the projects we work on are really far out there from the practical interests that students have now," said Washington. "Every now and then I think it is good for professors to take a step closer towards the student, and I think this sort of project allows me to do that."

Named after the first dean of the Faculty of Graduate Studies and Research, McCalla professors acknowledge the importance of students, conduct themselves in an ethical manner, are collaborative and open to change, take pride in history and traditions, and are committed to integrating their research and teaching. ■

Legislated to health?

Jamie Hanlon

Obesity rates in North America are a growing concern for legislators. Expanded waistlines mean rising health-care costs for maladies such as diabetes, heart disease and some cancers. One University of Alberta researcher says that if people do not take measures to get healthy, they may find that governments will throw their weight into administrative measures designed to help us trim the fat.

"Measures at multiple levels—directed at the food and beverage industry, at individuals, at those who educate and those who restrict—must work together to be effective."

Nola Ries

Nola Ries of the Faculty of Law's Health Law and Science Policy Group has recently published several articles exploring potential policy measures that could be used to promote healthier behaviour. From the possibility of zoning restrictions on new fast-food outlet locations, mandatory menu labels or placing levies on items such as chips and pop, to offering cash incentives for leading a more healthy and active lifestyle, she says governments at all levels are looking to adopt measures that will help combat both rising health-care costs and declining fitness levels. But she cautions that finding a solution will require a multi-layered approach.

"Since eating and physical activity behaviour are complex and influenced by many factors, a single policy measure on its own is not going to be the magic bullet," said Ries. "Measures at multiple levels—directed at the food and beverage industry, at individuals, at those who educate and those who restrict—must work together to be effective."

Ries says that several countries have already adopted tax measures against snack foods and beverages, similar to "sin taxes" placed on alcohol and tobacco, although this is not the case in Canada. She says taxing products such as sugar-sweetened beverages would likely reduce consumption and provide a revenue to combat associated problems.

"Price increases through taxation do help discourage consumption of 'sin' products, especially for younger and lower-income consumers," said Ries. "Such taxes would provide a source of government revenue that could be directed to other programs to promote healthier lifestyles." ■

Writing about China takes an open mind

Michael Davies-Venn

A researcher at the University of Alberta says people travelling east to write about China first need to unload their cultural baggage at home.

The scale and rate of China's growth, economically and culturally, is attracting increasing interest from culture producers in the West who attempt to record and explain the phenomenon that is China. Their efforts are the focus of a study by Leilei Chen, a researcher in the Department of English and Film Studies.

From examining what has been written about China, especially in travel literature published in the past 50 years, Chen has observed

that the knowledge produced about the country is mostly negative and one-sided. "They often project China as dark or exotic. But the country is much more complicated than that," she said.

Chen, who was born and grew up in China, says that simplistic imagery of the country and its people dates back centuries. Her research interest was triggered after she read *Behind the Wall: A Journey Through China*, a book about her country in the 1980s. "I was growing up in China then and in that book, I was reading about a China that I did not know."

Chen has done a lot more reading about China since then. For her study, which is being published in a book, *Translating New China:*

Travel Writing and Cross-Cultural Understanding, she combed through several types of literature on China—mainly by North American authors—to find that many do not accurately explain the country and its culture.

"It's more productive to set aside our cultural baggage while interpreting a foreign people or country," Chen says. "We should be aware of the confinement of seeing only from the angle that we're familiar or comfortable with."

Chen's message is one reflected in the University of Alberta's efforts to create connections. The China Institute has become one of the most important resources in Canada for engaging with China. Other examples of engagement include U of A International, which attracts hundreds of students from China every year, and the more than 50 agreements the U of A has with China's top-ranking institutions. For her part, Chen is helping to develop the Bridging Program, a new effort to help international students integrate well into Canadian universities. All these efforts suggest a step in the right direction toward correcting established ideas of China as an exotic, inscrutable place, says Chen.

"This biased understanding of China exists not just in travel literature, but also in philosophy writings by such thinkers as Georg Hegel and Karl Marx," she says. "If you follow their way of looking at China, you don't see the point of connection between the West and China."

Until 1976, China was a closed society during its Cultural Revolution—a period that started



Leilei Chen found that travel writing about China often misrepresents the country's people and culture.

10 years earlier—during which then Chairman Mao Zedong isolated China from the rest of the world. "China has only opened up to the outside world since 1979, the year when the country started to implement the Open Door policy," Chen says. "Prior to that, China had been closed to the rest of the world for three decades. If you close yourself up, no one can understand you. So China is partly responsible for its misrepresentation today."

Chen acknowledges that there are facts in travel writing about China, such as the massacre at Tiananmen Square, that cannot be disputed. But her research focuses less on the facts per se than on why the writers choose to report one fact instead of another.

"We all have a critical view of China's human rights problem and the country's lack of democracy, but if we also read such details as students in China cheating during their hunger strike, for example, we could see that there's more about China, beyond what the mainstream offers," she said. ■

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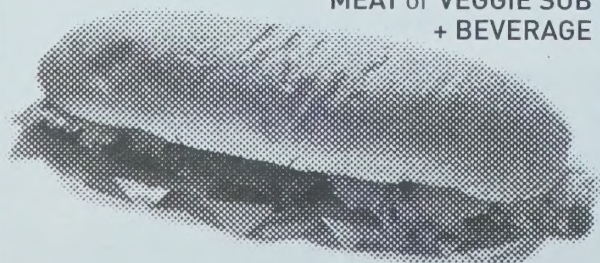
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Getting serious about global gaming

Michael Davies-Venn

Researchers at the University of Alberta have teamed up with colleagues in one of the world's leading centres on electronic gaming to form a network that will help close the gap between academia and the gaming industry.

Researchers at Ritsumeikan University's College of Image Arts and Sciences and at the U of A are addressing a broad scope of questions about how electronic games can be used for education, defining the line between literature and gaming, and finding ways to preserve electronic games.

The effort strengthens the U of A's position on this research—which is essential, says Geoffrey Rockwell, a researcher with the Humanities Computing Program and Department of Philosophy, who recently won a Japan Foundation grant and worked with colleagues at Ritsumeikan University.

"It's very important for Canada [because] Canadians are developing games not just for Canadians. Canada is now, by some calculations, the third-largest producer of games, even though we have a fairly small population. The actual Canadian market is very small. But we have game studios in Vancouver, Edmonton, Toronto and Montreal that are developing games for the world.

"Japan in the Asian market is an enormous part of that, and our students need an understanding of the Asian market and the way they perceive games, the culture of playing

games," Rockwell notes. "And we as faculty need to make sure that we're looking at this global phenomenon. The games studies community has been more isolated."

The Prince Takamado Japan Centre for Teaching and Research, one of the university's arms in reaching out to create international partnerships, also played a significant role in establishing the network, says Rockwell.

During a symposium held in August in Edmonton, researchers from Japan, from the U of A and from across Canada settled down to begin building the bridge that will bring games studies out of isolation.

"The idea of the symposium was to bring perspectives from both Canada and Japan on these issues of games, industry, cross-cultural issues and education," says Rockwell. "For us this is perfect because we're based in Kyoto, where a major game producer is," says Nakamura.

Apart from producing games, one of the main quandaries for both academia and industry is preserving them.

"Much of the important art of the last 50 years—and by that I don't mean fine art but human art—has been interactive media. And the academy has a responsibility to preserve the works of art of its citizens," said Rockwell. "Now is the time that we ought to be developing strategies for preservation; otherwise, we'll have nothing to study 50 years from now."

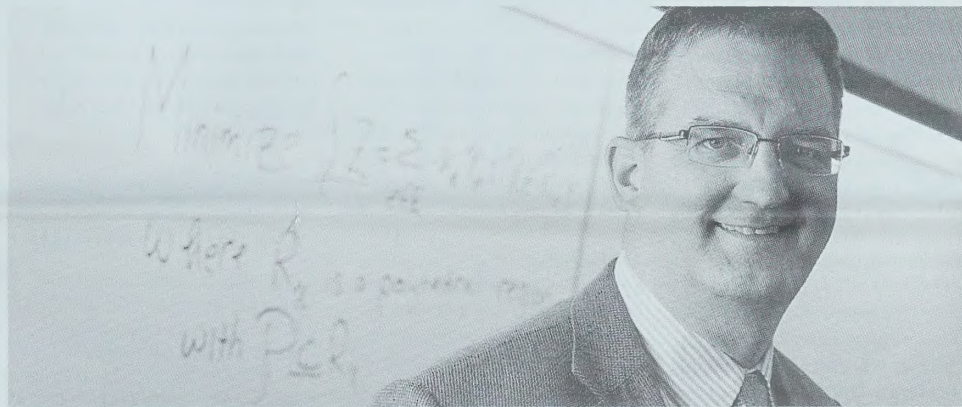
The landscape of gaming may be changing, but Rockwell says the fundamental experience of electronic gaming has non-digital analogues.



Geoffrey Rockwell is leading an international effort to address broad questions about gaming.

"My mother was a bridge fanatic. She was part of a whole circle of bridge players. She'd go off in the evenings with her bridge partner for hours and play bridge and drink wine; nobody ever accused her of being a nerd," he says. "But all of a sudden I woke up one day and realized my mom was a gaming nerd, long before I was. Bridge is a strategic game—not unlike StarCraft." ■

Math tree may help root out fraudsters



Ray Patterson found that an algorithm known as the Steiner tree could reveal social-network connections used to perpetrate fraud.

Jamie Hanlon

Fraudsters beware: the more your social networks connect you and your accomplices to the crime, the easier it will be to shake you from the tree.

The Steiner tree, that is.

In an article recently published in the journal *Computer Fraud and Security*, Ray Patterson, an associate professor in the Alberta School of Business, and colleagues from the universities of Connecticut and California – Merced outlined the connection linking fraud cases and the algorithm designed by Swiss mathematician Jakob Steiner.

Fraud is a problem that costs Canadians billions of dollars annually and countless hours of police investigations. Patterson says that building the algorithm into fraud investigation software may provide important strategic advantages.

To quote a television gumshoe, everything's connected. Figuring out who knows who and who has access to the money is like playing a game of connect-the-dots. Patterson says that for crimes like fraud, the fewer players in the scheme, the more likely it will be accomplished. Maintaining a small group of players is also what links it to the Steiner tree. He says that by analyzing various social networks—email, Facebook or the like—finding out the who, what and how of the crime can be boiled down to numbers.

"You're really trying to find the minimum set of connectors that connect these people to the various [network] resources," he said. "The minimum number of people required is what's most likely to be the smoking gun. You can do it with math, once you know what the networks are."

In their article, Patterson and his colleagues explored how networks such as phone calls, business partnerships and family relationships are used to form essential relationships in a fraud investigation. When these same relationships are layered, a pattern of connection becomes obvious. Once unnecessary links are removed and false leads are extracted, the remaining connections are most likely the best suspects. Patterson says that finding the shortest connection between the criminals and the crime is the crux of the Steiner tree.

"All of these things that we see in life, behind them is a mathematical representation. There are many, many different algorithms that we can pull off a shelf and apply to real-life problems."

Ray Patterson

that uses a Steiner tree algorithm may save a significant portion of investigators' time.

"If you can reduce your legwork by even 20 per cent, that has massive manpower implications," he said. "think algorithms like this one could help you reduce your legwork a lot more than that."

Although there is software that police and other law enforcement agencies can use to solve fraud, Patterson sees no evidence that those programs use a Steiner tree algorithm, something he says would bring some structure to an unstructured area.

"It might take several years or many years before anyone picks it up," said Patterson. "But it's a good thing if we can point people towards what's useful." ■

AASUA names BOG representatives

Folio Staff

The minister of enterprise and advanced education has appointed Miodrag (Mike) Belosevic and Wayne Renke to the University of Alberta Board of Governors, as the nominees from the Association of Academic Staff, for a three-year term expiring Sept. 2, 2015.

Belosevic is a Distinguished University Professor in the Department of Biological Sciences and the School of Public Health. He is the recipient of more than 25 awards, including being inducted as a Fellow of the Royal Society of Canada, winning the 2006 University Cup and receiving the Alberta Centennial Medal from the province, the Killam Award for Excellence in Mentoring and the Killam Annual Professorship.

Belosevic has served the university as a member of senior committees including the General Faculties Council Executive and General Appeals Committee.

Renke has served as president of AASUA (1999), special advisor to the provost (2000–2003), and associate dean of graduate studies and research of the Faculty of Law (2004–2005). From 2005–2010 he served as the associate dean (academic) and vice-dean of the Faculty of Law. In 2010–2011 he was seconded to U of A International, as university advisor on international educational experiences. In 2011 he returned to full-time teaching at the Faculty of Law. He has served on numerous university and faculty committees, including the Arts, Science and Law Research Ethics Board (chair, 2007–2008) and the governance expert panel of the University's Funding Solutions Task Force (chair, 2002–2003).

"I am grateful for the opportunities my job provides, and feel obligated to contribute, if only in a small way, to the work of running the institution, so colleagues can attend to their jobs," said Renke. ■

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folio presents a sample of some of the stories that recently appeared on the ualberta.ca news page. To read more, go to www.news.ualberta.ca.

Firms with political ties may be bad investment

Sadok El Ghouli, an associate professor at Campus Saint-Jean, and colleagues recently presented a paper at the annual conference of the International Journal of Accounting that contends that firms with some level of political connection, direct or indirect, are more likely to have greater cash holdings than non-connected firms. This money, they suggest, is often used as a resource for the firms' political friends.

El Ghouli says that hoarding excess cash runs contrary to the notion of maximizing profit and value for a company's shareholders. Instead, he says, this money could be used by the politically connected friends of the firm to serve personal interests related to their political agenda.

"The companies might use that excess cash to finance political campaigns and to pay bribes. They might also hoard more cash to invest in unprofitable regions, in regions where votes matter but profitability is not there," said El Ghouli.

El Ghouli says minority shareholders are the real victims of these types of firms. He says they lose out on receiving fair recompense—dividends—for the stock, while politicians with ties to the corporate sector have no incentive to change the regulations in favour of more transparent, well-functioning corporate governance systems.

Art and Design professor TUFFs it out

Maria Whiteman, an assistant professor of art and design, had a film accepted as one of about 60 one-minute-long silent films by the Toronto Urban Film Festival that showed on 300 televisions in Toronto subway stations Sept. 7–17.

Whiteman worked with the curator in charge of the taxidermies of mammals at the Royal Alberta Museum and created a total of 16 short films of her hand touching different animals, like owls and deer, in addition to the bear featured in the film accepted by the festival.

"I always thought the festival was such a great idea, so I thought I'd just apply and see what happened. I sent two films, and was thrilled when they accepted the bear film. They get about 500 applications from all over the world," Whiteman said.

Discovery makes sense of molybdenum mystery

Joel Weiner, a biochemistry researcher, and his team have discovered why a molecule that holds molybdenum, an essential metal required in all living beings that is critical for the health of organisms, in place with an enzyme has to be so extraordinarily complex and "expensive" for cells to make.

Weiner's summer student, Matthew Solomonson, noticed that one type of the molecules holding molybdenum in place was very flat, whereas another group was distorted.

Weiner's research group found that the distorted molecule—which is found in proteins involved in metabolic, respiratory and cardiac diseases—plays a role in the transfer of electrons to the molybdenum. The flat molecule—which occurs in a protein required for brain development, where defects cause death in infancy—prepares and co-ordinates positioning of the enzyme so it can be part of a biochemical reaction.

"New students have a fresh way of looking at things," said Weiner of Solomonson, who is now a graduate student at the University of British Columbia. "This discovery is a major one for my lab and will have a huge impact on molybdenum biochemistry research."

United Way 2012 going to the birds

The 2012 United Way fundraiser is under way and employing creativity in an effort to exceed last year's total of \$647,303.

Alongside the usual array of annual fundraising events—the 53rd Annual Turkey Trot (Sept. 29), Super Sub Day (Oct. 3), Thriller (Oct. 31) and Chillin' for Charity 2012 (Oct. 25)—is a new U of A Protective Services event entitled Chickens for Charities.

The idea is a simple one: UAPS is now the proud owners of nine rubber chickens set to be delivered to offices across campus. In order to rid yourself of this sight, you can prepay \$40 for Chicken Insurance on or before Sept. 24 to protect your space. In the likely event that a rubber chicken arrives at your space, you can raise a minimum \$75 in donations for the latex bird's safe disposal. Contact Sgt. Marcel Roth (2-8782) to arrange for the safe disposal.

The Chickens for Charities event runs from Sept. 24 to Oct. 9.

The United Way campaign runs until Oct. 19, but donations counting for this year's campaign will be accepted until the end of the year.

Bringing forgotten women back from the margins

Bev Betkowski

Chin tilted, eyes challenging the camera, Edna Floyd sports her furs and fabulous feathered hat like a queen. Never mind that the photo she is sitting for is a police mug shot.

Floyd, a fashionable madam who did business in Winnipeg in 1904, doesn't appear fazed by her arrest—and it was her fierce beauty that transfixed Laurie Bertram, curator of a new show, *Pioneer Ladies* (of the evening), opening Sept. 13 in the University of Alberta's human ecology gallery.

"Floyd should be commemorated just for looking like a million bucks. She showed real resistance to victimization, and I was so impressed by her," said Bertram, who is also a Grant Notley Memorial Post-doctoral Fellow in the U of A's Department of History and Classics.

Using quilts, women's clothing and other representational artifacts borrowed from the U of A's clothing and textiles collection, Bertram is bringing them into conceptual focus with police mug shots of women she gleaned from museums and archives. The end project is being used to tell the story of marginalized women of Western Canada from 1878 to 1916—and to challenge contemporary thinking about today's missing or murdered women.

"We can reflect on the kinds of history we promote and be critical about who we are remembering and why, and what possibilities that can bring for the future. This show is a kind of response to the spectre

of missing women in Canada," said Bertram.

The sex trade was an assumed part of the social landscape as the Canadian West was settled and as the country moved into the First World War, but the stories of the women who were involved have gone largely untold and unheralded, Bertram said.

"Women on the margins were and are some of the most important people in society," she said, "and we lose so much when we lose them and we gain so much when we honour them for their courage and heroism."

Bertram was first captured by the topic while conducting other research. She stumbled across the written account of an Icelandic woman who had been hired as a housemaid, and was arrested in 1878 for causing bodily harm. When her employer, a madam, withheld her wages to coerce her into prostitution, the maid beat the madam with a broom, and was arrested by police. Fascinated, Bertram searched for the woman's mug shot in the archives of the Winnipeg Police Museum, and came across several others, including photos of African-Canadian women, who had been arrested for theft, prostitution or other offences.

The silent gallery of women—some dishevelled, some elegant like Edna Floyd—was richly compelling for Bertram.

"I knew this had to be a show."

The exhibit is built around 11 mug shots, six with major profiles, and four featuring Alberta women, including "Big Nelly" Webb, an Edmonton madam who gained notoriety in 1888 when she shot



Laurie Bertram prepares to showcase a mug shot of Edna Floyd, a madam who did business in Winnipeg in 1904.

an off-duty police officer in self-defence, and was acquitted.

The artifacts in the show reflect the circumstances or personalities of the women; in the case of Big Nelly, who had initially been driven from Edmonton, Bertram chose a quilt that was red and white like the Canadian flag, but had explosive bursts in its pattern. "It's a very literal connection to her story."

But fashionable or not, the women symbolized a problem that is all the more distressing because it is becoming the norm in society, Bertram noted.

"There are thousands of women who have been murdered or have disappeared in the last 100 years. There seems to be this growing acceptance that this is a normal part of Canadian life, and I find that unacceptable." ■

Pioneer Ladies (of the evening)

This exhibit runs until Nov. 4 in the lobby gallery of the Human Ecology Building on campus. The gallery is free to the public. Viewing hours are Monday to Friday 8:30 a.m. to 7 p.m., Saturday 8:30 a.m. to 4 p.m. and Sunday from noon to 4 p.m.

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Physics students show aptitude for altitude

Brian Murphy

It would be an understatement to say that University of Alberta physics student Collin Cupido said yes instantly to a special job this summer in far-off New Hampshire.

"You want me to go do something for NASA? Let's go do it," said Cupido.

He admits they had him at "NASA."

Cupido, along with four other U of A physics students and their instructor, went to Dartmouth College in New Hampshire for two weeks to help researchers there prepare atmospheric monitoring equipment for a NASA mission.

The U of A team worked with the Dartmouth researchers to assemble and test some of the 45 payloads and helium balloons that NASA will launch from Antarctica during two month-long campaigns in January 2013 and January 2014.

Dave Milling, the U of A physics researcher on the trip, explained that Dartmouth is

"If the university's goal is to keep us engaged in space research, they're doing a pretty good job."

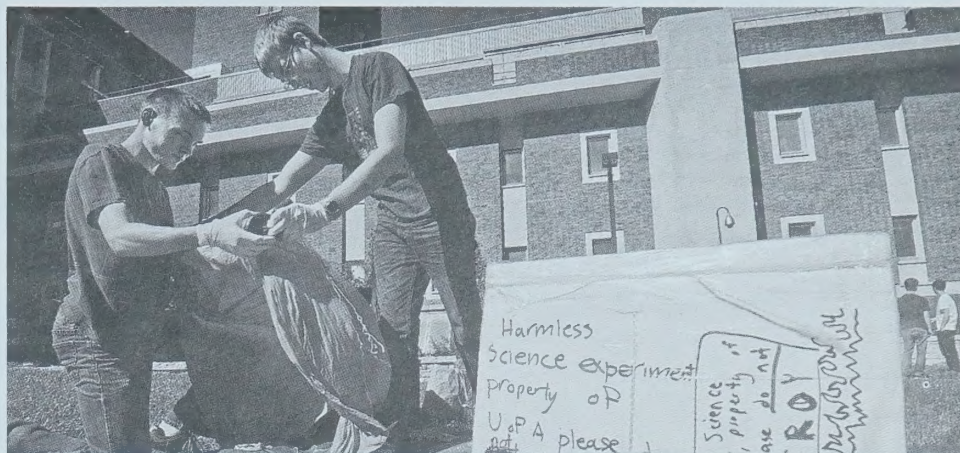
Alex Hamilton

leading the research project to study space radiation.

Space radiation is described as highly energetic particles in a doughnut-shaped belt surrounding Earth. Periodic blasts of solar activity can whip the particles up to nearly the speed of light, and the resulting space storms can knock out communications satellites and endanger the health of astronauts. International Space Station personnel could be vulnerable when required to make spacewalks.

Milling says the Earth's polar regions are the best places to study the phenomenon.

"High-altitude balloons launched in Antarctica get caught in the Polar Vortex, hitching a free ride



Physics students Collin Cupido (left) and Alex Hamilton check out their weather balloon outside the Biological Sciences building. They will launch the balloon for a space research project later this year.

on winds that takes them in a big circle around the continent," said Milling. "A similar, although weaker, vortex exists over the Canadian Arctic, but the balloons would circle through Russian airspace and they could be shot down."

NASA's weather balloons are big targets. The balloons each expand to 300,000 cubic feet, and as many as eight of them will be in flight at the same time for 10 days, after which they will deflate and fall to the frozen surface of Antarctica.

The U of A students won't be going to Antarctica for the launch, but once the balloons are in the

air, they'll play a pivotal role in the mission.

"We'll monitor GPS signals from the balloons over the Internet to make sure everything is on track," said Cupido.

Cupido and fellow physics student Alex Hamilton will launch their own weather balloon later this year, in a scaled-down version of the Dartmouth research into high-energy particles and Earth's magnetic field.

Milling says part of the physics department's goal is to keep students interested in space research—and events like the Dartmouth trip

and student-led high-altitude balloon experiments serve an important purpose. "Giving students like Alex and Collin the go-ahead to launch a weather balloon research project is right down their street," said Milling.

Cupido and Hamilton aren't sure when they'll launch their home-built radiation detector, but they'll be calling on many others in the department to help out.

"If the university's goal is to keep us engaged in space research, they're doing a pretty good job," said Hamilton. ■

talks & events

Talks & Events listings do not accept submissions via fax, mail, email or phone. Please enter events you'd like to appear in folio and at www.news.ualberta.ca/events. A more comprehensive list of events is available online at www.events.ualberta.ca. Deadline: noon one week prior to publication. Entries will be edited for style and length.

UNTIL SEPT. 30

Sam Steele: The Journey of a Canadian Hero. This is the much-anticipated public presentation of the Sir Samuel Steele Collection. Steele was an iconic and influential leader who was instrumental in policing Western Canada and the Yukon and participated in many of Canada's most historic military campaigns. For the first time, visitors will have the opportunity to view the personal photographs, letters, and diaries of this iconic Canadian, brought to life through video re-enactments, a 100-foot timeline of his life and travels, and an engaging audio tour. Enterprise Square.

UNTIL SEPT. 28

East Germany on Display: Dictatorship, Nostalgia & Everyday Life. The exhibit explores complexities in the musealization of East Germany while raising broader questions about the challenges of representing the past. It juxtaposes autobiographical narrative, photographs, things and ideas about what kind of a place East Germany was. 1-80/81 Tory Building.

UNTIL SEPT. 27

BookMarks. A varied collaborative effort by visual art and design masters students, is an installation/exhibition exploring the endangerment and obsolescence of printed materials. Rutherford Library South Foyer.

UNTIL SEPT. 22

Counterpoint: The aesthetics of post-colonialism. Exhibit by Gavin Renwick, professor in the Department of Art and Design. FAB Gallery.

SEPT. 22

Reunion weekend open house and tour of ECHA. For assistance with registration, please contact Fiona Wilson at 780-492-9171. 10 a.m.–noon, Edmonton Clinic Health Academy.

Night at the Royal Alberta Museum. The Department of Earth and Atmospheric Sciences Centennial

Celebration takes to the Royal Alberta Museum. The evening will feature a talk by Sir Keith O'Nions, alumnus, president and rector of the Imperial College in London, and one of the world's most influential geoscientists. A pioneer of modern isotope geochemistry, O'Nions has undertaken groundbreaking research in ocean geochemistry, heat fluxes from the mantle, bonding in minerals, and the origin of the Earth's continents. 7 p.m.–midnight. Royal Alberta Museum.

U of A Diner & Movie Night in Quad. Bring your best friends and a blanket and head to Quad after hours. Watch George Lucas's classic diner movie, *American Graffiti*, in the diner in the big tent. Free for everyone. We'll supply the nostalgia and door prizes. Popcorn and soda available (cash only). 7:30–10:30 p.m. Quad (big tent).

SEPT. 24

Centennial Lectures. U of A diabetes researchers Peter Senior and Patrick MacDonald will deliver a lecture entitled *From Insulin to the Edmonton Protocol and beyond...* How will new science improve the lives of patients with diabetes? 5–7 p.m. Allard Family Lecture Theatre.

SEPT. 25

Quoting, Paraphrasing, Summarizing & Brownie Eating. This Centre for Writers presentation is open to all. 1–2 p.m. 1-26 Assiniboia Hall.

SEPT. 26

Careers Day. This multi-disciplinary career fair will feature more than 200 employers, at the local, national and international level, participating in this networking and recruitment opportunity. 10 a.m.–4 p.m. Butterdome

Public Information Open House – Amendment to Land Use Plans for South Campus. The university is continuing its engagement of the South Campus communities as it works

towards amending the land use plans for South Campus (sectors 12, 13, 14). Information presented at this meeting will show progress to date on the university's land use plans for South Campus. 5:30–8:30 p.m. McKernan School, 11330 76 Ave.

SEPT. 27

Intro to CSL for Instructors. What is Community Service-Learning (CSL)? What kinds of courses and teaching approaches does it work with? What are creative ways to bring CSL into an existing or new course? What steps do instructors take to participate in the upcoming term? For more information, please contact: Lorraine Woollard, CSL executive director, lmw@ualberta.ca, 780-492-9252. 3–4 p.m. CSL House (11039 Saskatchewan Drive)

China Institute and Department Political Science Speaker Series. Dorothy Solinger, a political science professor at the University of California, Irvine, presents *Authoritarian Assistance: Welfare and Wealth in Urban China*. 3:30–5 p.m. 10-4 Tory Building.

Celebrate! Teaching. Learning.

Research. Each September the U of A honours the achievements of our faculty, students and staff at this event. Come be inspired by the achievements of our faculty, staff and students, in and out of the classroom and office. Please RSVP to 780-492-2449 or via email to kelly.lester@ualberta.ca. 4–5:30 p.m. Myer Horowitz Theatre.

30th anniversary of East Asian Studies. The Department of East Asian Studies, the China Institute and the U of A Press are celebrating the 30th anniversary of East Asian Studies and the publication of *Pursuing China*. The night will feature In the beginning... there was a committee, a talk by Brian Evans, founding chair of East Asian Studies. RSVP, if possible, to 780-492-8832 or to china@ualberta.ca by Sept. 25. 4–7 p.m. TELUS Centre.

Against All Odds: Gender and Education in the Developing World.

Aga Khan Foundation Canada's 2012 University Seminar Series is an opportunity for students to interact with development practitioners from the South and to learn more about key issues and challenges in the field of international development. Drawing on Experiences from Afghanistan and East Africa, the 2012 University Seminar Series will focus on the challenges and successes of education in the developing world—particularly for girls and women. Jane Rariya, professor and head of teaching programs at Aga Khan University's Institute for Educational Development in Tanzania, and Jennifer Blinkhorn, director of education with Aga Khan Foundation Afghanistan, will provide a window into the educational context of their respective regions, particularly the barriers overcome by girls who succeed in school and continue on to higher learning. 6:30–8:30 p.m. 1-140 CCIS.

7th Annual Hurtig Lecture on the Future of Canada. Celebrated poet and social critic George Elliott Clarke will be on hand to present "Obama, Race and Canada." 7–9 p.m. 150 TELUS Building.

SEPT. 28

The Relevance of Academic Freedom. President Indira Samarasekera; Jocelyn Downie, Canada Research Chair in Health Law and Policy; David Schindler, Killam Memorial Professor of Ecology and professor of biological sciences; and Nathan Andrews, Graduate Students' Association vice-president (academic), will be the discussants in a panel presentation on academic freedom. 3–4 p.m. L-1490 ECHA.

What is Academic Freedom? Jocelyn Downie, Canada Research Chair in Health Law and Policy. 8–9 p.m. L-1490 ECHA.

9th Annual Space Exploration Symposium. This day will feature a talk entitled *Space Rocks, Asteroid Mines*

and Planetary Resources delivered by Chris Lewicki, president of Planetary Resources, Inc. 6–9 p.m.

OCT. 3

Writing Concisely & Apple Pie. This Centre for Writers presentation is open to all. 1–2 p.m. 1-26 Assiniboia Hall.

OCT. 4

China Seminar Series. Dorothy Solinger, professor at University of California, Irvine, will give a talk entitled *Authoritarian Assistance: Welfare and Wealth in Urban China*. Most studies of social protection investigate welfare in democracies at the national level, and typically ask how welfare affects voting. This paper, to the contrary, considers social assistance in authoritarian China at the urban level. 3:30–5 p.m. 10-4 Tory Building.

Innovative Leaders Series. Asim Ghosh, president and CEO of Husky Energy, will be on hand to discuss how formal and informal experiences, gained through a global business career, continue to shape his leadership journey. He will stress that leadership development is not a passive exercise. At every stage in our careers, we must keep our eyes open for experiences and opportunities and make the most of them. 4–5:30 p.m. L2-190 CCIS.

9th Annual Toby & Saul Reichert Holocaust Lecture. Robert Paxton, Mellon Professor Emeritus of Social Science at Columbia University, will present this year's lecture, sponsored by the Wirth Institute, entitled *How Vichy, France Came to Participate in the Holocaust*. 5–6 p.m. TELUS Centre.

OCT. 8

Thanksgiving. University closed.

OCT. 9

The Legal Forum Centenary Speakers Series. If you need your hockey fix don't miss Sports Law, current state of labour relations in the NHL. 231/237 Law Centre. Noon–1:50 p.m.



PHOTOS BY RICHARD SIEMENS AND JOHN ULAN

memories you can bite into

The Varsity Tuck Shop was resurrected Sept. 20 as the hub for all activities related to Alumni Weekend 2012. Over the years, this reunion-weekend gathering space has become a campus mainstay where friends reminisce, laugh, cry and maybe even share a scrumptious cinnamon bun.

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